Topology Seminar

Stephen McKean

of Harvard University will be speaking on

Motivic Euler characteristics and power structures

on March 11 at 4:30 in
MIT Room 2-131

There is a quadratic form-valued version of the compactly supported Euler characteristic coming from motivic homotopy. A feature of this Euler characteristic is that it descends to a ring homomorphism out of the Grothendieck ring of varieties. In characteristic 0, this Euler characteristic was constructed by Rondigs and later Arcila-May–Bethea–Opie–Wickelgren–Zakharevich, who used Bittner’s blow up presentation of $K_0(\text{Var})$. In characteristic not 2, Azouri gave a characterization in terms of the six functor formalism. I will discuss a hybrid $K_0(\text{Var})$–Wittring of quadratic forms, and conclude with a conjecture relating these two power structures. This is joint work in progress with Dori Bejleri.

For information, write: jhahn01@mit.edu